



Receipt

JC05 Rec'd PCT/PTO 20 AUG 2001

ALLIA.143C1

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Zaghouani)
Serial No. : 09/623,728) I hereby certify that this
Filed : January 22, 2001) correspondence and all marked
For : Compounds, Compositions and) attachments are being deposited with
Methods for the Endocytic Presentation) the United States Postal Service as first
Of Immunosuppressive Factors) class mail in an envelope addressed to:
Examiner : Unknown) Commissioner for Patents and
Group Art Unit : 1615) Trademarks, Washington, D.C. 20231,
on
August 15, 2001
Diane Trus

COMMISSIONER FOR PATENTS AND TRADEMARKS
WASHINGTON, D.C. 20231

ATTN: OFFICE OF INITIAL PATENT EXAMINATION
CUSTOMER SERVICE CENTER

RECEIVED

NOV 21 2001

TECH CENTER 1600/2900

Sir or Madam:

Applicant hereby respectfully requests that the official Filing Receipt for the patent application listed above be corrected as follows:

Please list the number of Drawings as: 23

Please list the Domestic Priority data as claimed by applicant as:

THIS APPLICATION IS A 371 OF PCT/US99/15225 07/06/1999
WHICH CLAIMS BENEFIT OF 09/111,123 07/06/1998
WHICH IS A CIP OF 08/779,767 01/07/1997

Copies of the Filing Receipt with the corrections indicated in red ink, the originally filed Transmittal Letter listing the correct Priority Data, and the cover page of the PCT publication listing the correct Priority Data are enclosed. Please forward the corrected filing receipt to:

Knobbe, Martens, Olson & Bear LLP
20 Newport Center Drive
Sixteenth Floor
Newport Beach, CA 92660

Please call the undersigned at the number stated below if there are any questions concerning this filing.

Respectfully submitted,

Date: 8/15/2001

John Wurst
Registration No. 40,283
(858) 410-5174



UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 20521
WWW.USPTO.GOV

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
09/623,728	01/22/2001	1615	485	ALLIA.143C1	X	20	3000

CONFIRMATION NO. 6688

20995

KNOBBE MARTENS OLSON & BEAR LLP
620 NEWPORT CENTER DRIVE
SIXTEENTH FLOOR
NEWPORT BEACH, CA 92660



FILING RECEIPT



OC000000008145253

Date Mailed: 06/04/2001

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Habib Zaghouani, Knoxville, TN;

Domestic Priority data as claimed by applicant

THIS APPLICATION IS A 371 OF PCT/US99/15225 ~~07/06/1998~~
WHICH CLAIMS BENEFIT OF 09/111,123 07/06/1998
WHICH IS A CIP OF 08/779,767 01/07/1997

Foreign Applications

Projected Publication Date: N/A

Non-Publication Request: No

Early Publication Request: No

** SMALL ENTITY **

Title

Compounds, compositions and methods for the endocytic presentation of immunosuppressive factors

Preliminary Class

424

Data entry by : NGUYEN, SON

Team : OIPE

Date: 06/04/2001

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

U.S. Application No.
Unknown

International Application No.
PCT/US99/15225



Attorney Docket No.
ALLIA.143C1

Date: September 5, 2000

Page 1

**TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A FILING UNDER 35 USC 371**

International Application No.: PCT/US99/15225
International Filing Date: July 6, 1999
Priority Date Claimed: July 6, 1998
Title of Invention: COMPOUNDS, COMPOSITIONS AND METHODS FOR THE ENDOCYTIC
PRESENTATION OF IMMUNOSUPPRESSIVE FACTORS
Applicant(s) for DO/EO/US: The University of Tennessee Research Corporation

RECEIVED

NOV 21 2001

TECH CENTER 1600/2900

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. (X) This is a **FIRST** submission of items concerning a filing under 35 USC 371.
2. (X) This express request to begin national examination procedures (35 USC 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 USC 371(b) and PCT Articles 22 and 39(1).
3. (X) A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
4. (X) A copy of the International Application as filed (35 USC 371(c)(2))
 - a) () is transmitted herewith (required only if not transmitted by the International Bureau).
 - b) () has been transmitted by the International Bureau.
 - c) (X) is not required, as the application was filed in the United States Receiving Office (RO/US).
5. (X) Amendments to the claims of the International Application under PCT Article 19 (35 USC 371(c)(3))
 - a) () are transmitted herewith (required only if not transmitted by the International Bureau).
 - b) () have been transmitted by the International Bureau.
 - c) () have not been made; however, the time limit for making such amendments has NOT expired.
 - d) (X) have not been made and will not be made.

Items 11. to 16. below concern other document(s) or information included:

6. (X) International Application as published.
7. (X) PCT Form PCT/IB/308.
8. () Other Items or information:
9. (X) A return prepaid postcard.

COPY

U.S. Application No.
Unknown

International Application No.
PCT/US99/15225



Attorney Docket No.
ALLIA.143C1

Date: September 5, 2000

Page 2

10. (X) The following fees are submitted:

COPY

FEES

TECH CENTER 1600/2900

NOV 21 2001

RECEIVED

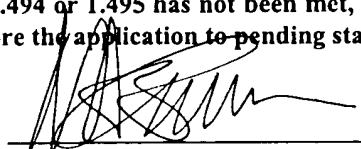
BASIC FEE				\$840
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	
Total Claims	20 - 20 =	0 x	\$18	\$0
Independent Claims	3 - 3 =	0 x	\$78	\$0
Multiple dependent claims(s) (if applicable)			\$260	\$0
TOTAL OF ABOVE CALCULATIONS				\$840
Reduction by 1/2 for filing by small entity (if applicable). Verified Small Entity statement must also be filed. (NOTE 37 CFR 1.9, 1.27, 1.28)				\$420
TOTAL NATIONAL FEE				\$420
TOTAL FEES ENCLOSED				\$420
amount to be refunded:				\$0
amount to be charged:				\$0

11. (X) The fee for later submission of the signed oath or declaration set forth in 37 CFR 1.492(e) will be paid upon submission of the declaration.
12. (X) A check in the amount of \$420 to cover the above fees is enclosed.
13. (X) The Commissioner is hereby authorized to charge only those additional fees which may be required, now or in the future, to avoid abandonment of the application, or credit any overpayment to Deposit Account No. 11-1410. A duplicate copy of this sheet is enclosed.

NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

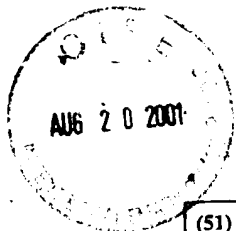
SEND ALL CORRESPONDENCE TO:

KNOBBE, MARTENS, OLSON & BEAR, LLP
620 Newport Center Drive
Sixteenth Floor
Newport Beach, CA 92660


Signature

Ned A. Israelsen
Printed Name

29,655
Registration Number



PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ : C07K 19/00, A61K 39 /00 // C07K 14 /47, 16 /00		A2	(11) International Publication Number: WO 00/01732
			(43) International Publication Date: 13 January 2000 (13.01.00)
(21) International Application Number: PCT/US99/15225		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), EE, EE (Utility model), ES, FI, FI (Utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (Utility model), SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).	
(42) International Filing Date: 6 July 1999 (06.07.99)			
(30) Priority Data: 09/111,123 6 July 1998 (06.07.98) US			
(63) Related by Continuation (CON) or Continuation-in-Part (CIP) to Earlier Application US 09/111,123 (CIP) Filed on 6 July 1998 (06.07.98)			
(71) Applicant (for all designated States except US): THE UNIVERSITY OF TENNESSEE RESEARCH CORPORATION [US/US]; 415 Communications Building, Knoxville, TN 37996-0344 (US).		Published <i>Without international search report and to be published upon receipt of that report.</i>	
(72) Inventor; and			
(75) Inventor/Applicant (for US only): ZAGHOUANI, Habib [TN/US]; 1408 Knightsbridge Drive, Knoxville, TN 37922 (US).			
(74) Agent: ALTMAN, Daniel, E.; Knobbe, Martens, Olson and Bear, LLP, 16th Floor, 620 Newport Center Drive, Newport Beach, CA 92660 (US).			

(54) Title: COMPOUNDS, COMPOSITIONS AND METHODS FOR THE ENDOCYTIC PRESENTATION OF IMMUNOSUPPRESSIVE FACTORS

(57) Abstract

A fusion protein for the alleviation of symptoms associated with an autoimmune disorder comprising an immunoglobulin or portion thereof linked to one or more autoantigenic polypeptides or fragments thereof, wherein said immunoglobulin or portion thereof is capable of binding to an Fc receptor and being endocytosed by an antigen-presenting cell, and said one or more autoantigenic polypeptides or fragments thereof provides more than one T cell receptor peptide agonist for presentation on the surface of said antigen-presenting cell upon endocytic processing. Said autoantigenic polypeptides may comprise at least a portion of myelin basic protein or at least a portion of proteolipid protein. Method to alleviate symptoms associated with an autoimmune disorder in a patient in need thereof comprising the steps of providing a composition comprising said fusion protein and administering a therapeutically effective amount of said composition to said patient. Autoimmune disorders may include multiple sclerosis, lupus, rheumatoid arthritis, scleroderma, insulin-dependent diabetes and ulcerative colitis. Method for presenting multiple T cell receptor agonists on the surface of a professional or nonprofessional antigen-presenting cell comprising the steps of providing said fusion protein, contacting said fusion protein with at least one Fc receptor present on the surface of a professional or nonprofessional antigen-presenting cell, whereby the fusion protein is internalized by the antigen-presenting cell, and endocytically processing the internalized fusion protein to provide more than one T cell receptor peptide agonist, wherein the provided T cell receptor agonists are presented on the surface of the antigen-presenting cell.

